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TECH CENTER 1600



1600

RAW SEQUENCE LISTING

DATE: 06/18/2003

PATENT APPLICATION: US/09/828,574A

TIME: 11:45:18

Input Set : A:\UCSD1310-1.ST25.txt

Output Set: N:\CRF4\06182003\I828574A.raw

3 <110> APPLICANT: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
 4 ALBANI, Salvatore
 5 PRAKKEN, Berent J.
 7 <120> TITLE OF INVENTION: STRESS PROTEINS AND PEPTIDES AND METHODS OF USE THEREOF
 9 <130> FILE REFERENCE: UCSD1310-1
 11 <140> CURRENT APPLICATION NUMBER: US 09/828,574A
 12 <141> CURRENT FILING DATE: 2001-04-06
 14 <150> PRIOR APPLICATION NUMBER: US 60/224,104
 15 <151> PRIOR FILING DATE: 2000-08-09
 17 <160> NUMBER OF SEQ ID NOS: 23
 19 <170> SOFTWARE: PatentIn version 3.1
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 573
 23 <212> TYPE: PRT
 24 <213> ORGANISM: Homo sapiens
 26 <400> SEQUENCE: 1
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 29 1 5 10 15
 32 Val Leu Ala Pro His Leu Thr Arg Ala Tyr Ala Lys Asp Val Lys Phe
 33 20 25 30
 36 Gly Ala Asp Ala Arg Ala Leu Met Leu Gln Gly Val Asp Leu Leu Ala
 37 35 40 45
 40 Asp Ala Val Ala Val Thr Met Gly Pro Lys Gly Arg Thr Val Ile Ile
 41 50 55 60
 44 Glu Gln Ser Trp Gly Ser Pro Lys Val Thr Lys Asp Gly Val Thr Val
 45 65 70 75 80
 48 Ala Lys Ser Ile Asp Leu Lys Asp Lys Tyr Lys Asn Ile Gly Ala Lys
 49 85 90 95
 52 Leu Val Gln Asp Val Ala Asn Asn Thr Asn Glu Glu Ala Gly Asp Gly
 53 100 105 110
 56 Thr Thr Thr Ala Thr Val Leu Ala Arg Ser Ile Ala Lys Glu Gly Phe
 57 115 120 125
 60 Glu Lys Ile Ser Lys Gly Ala Asn Pro Val Glu Ile Arg Arg Gly Val
 61 130 135 140
 64 Met Leu Ala Val Asp Ala Val Ile Ala Glu Leu Lys Lys Gln Ser Lys
 65 145 150 155 160
 68 Pro Val Thr Thr Pro Glu Glu Ile Ala Gln Val Ala Thr Ile Ser Ala
 69 165 170 175
 72 Asn Gly Asp Lys Glu Ile Gly Asn Ile Ile Ser Asp Ala Met Lys Lys
 73 180 185 190
 76 Val Gly Arg Lys Gly Val Ile Thr Val Lys Asp Gly Lys Thr Leu Asn
 77 195 200 205
 80 Asp Glu Leu Glu Ile Ile Glu Gly Met Lys Phe Asp Arg Gly Tyr Ile

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81      210      215      220
84 Ser Pro Tyr Phe Ile Asn Thr Ser Lys Gly Gln Lys Cys Glu Phe Gln
85 225      230      235      240
88 Asp Ala Tyr Val Leu Leu Ser Glu Lys Lys Ile Ser Ser Ile Gln Ser
89      245      250      255
92 Ile Val Pro Ala Leu Glu Ile Ala Asn Ala His Arg Lys Pro Leu Val
93      260      265      270
96 Ile Ile Ala Glu Asp Val Asp Gly Glu Ala Leu Ser Thr Leu Val Leu
97      275      280      285
100 Asn Arg Leu Lys Val Gly Leu Gln Val Val Ala Val Lys Ala Pro Gly
101      290      295      300
104 Phe Gly Asp Asn Arg Lys Asn Gln Leu Lys Asp Met Ala Ile Ala Thr
105 305      310      315      320
108 Gly Gly Ala Val Phe Gly Glu Glu Gly Leu Thr Leu Asn Leu Glu Asp
109      325      330      335
112 Val Gln Pro His Asp Leu Gly Lys Val Gly Glu Val Ile Val Thr Lys
113      340      345      350
116 Asp Asp Ala Met Leu Leu Lys Gly Lys Gly Asp Lys Ala Gln Ile Glu
117      355      360      365
120 Lys Arg Ile Gln Glu Ile Ile Glu Gln Leu Asp Val Thr Thr Ser Glu
121      370      375      380
124 Tyr Glu Lys Glu Lys Leu Asn Glu Arg Leu Ala Lys Leu Ser Asp Gly
125 385      390      395      400
128 Val Ala Val Leu Lys Val Gly Gly Thr Ser Asp Val Glu Val Asn Glu
129      405      410      415
132 Lys Lys Asp Arg Val Thr Asp Ala Leu Asn Ala Thr Arg Ala Ala Val
133      420      425      430
136 Glu Glu Gly Ile Val Leu Gly Gly Gly Cys Ala Leu Leu Arg Cys Ile
137      435      440      445
140 Pro Ala Leu Asp Ser Leu Thr Pro Ala Asn Glu Asp Gln Lys Ile Gly
141      450      455      460
144 Ile Glu Ile Ile Lys Arg Thr Leu Lys Ile Pro Ala Met Thr Ile Ala
145 465      470      475      480
148 Lys Asn Ala Gly Val Glu Gly Ser Leu Ile Val Glu Lys Ile Met Gln
149      485      490      495
152 Ser Ser Ser Glu Val Gly Tyr Asp Ala Met Ala Gly Asp Phe Val Asn
153      500      505      510
156 Met Val Glu Lys Gly Ile Ile Asp Pro Thr Lys Val Val Arg Thr Ala
157      515      520      525
160 Leu Leu Asp Ala Ala Gly Val Ala Ser Leu Leu Thr Thr Ala Glu Val
161      530      535      540
164 Val Val Thr Glu Ile Pro Lys Glu Glu Lys Asp Pro Gly Met Gly Ala
165 545      550      555      560
168 Met Gly Gly Met Gly Gly Gly Met Gly Gly Gly Met Phe
169      565      570
172 <210> SEQ ID NO: 2
173 <211> LENGTH: 15
174 <212> TYPE: PRT
175 <213> ORGANISM: Mycobacterium

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177 <400> SEQUENCE: 2
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183 <210> SEQ ID NO: 3
184 <211> LENGTH: 15
185 <212> TYPE: PRT
186 <213> ORGANISM: Homo sapiens
188 <400> SEQUENCE: 3
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191 1          5          10          15
194 <210> SEQ ID NO: 4
195 <211> LENGTH: 15
196 <212> TYPE: PRT
197 <213> ORGANISM: Mycobacterium
199 <400> SEQUENCE: 4
201 Pro Tyr Ile Leu Leu Val Ser Ser Lys Val Ser Thr Val Lys Asp
202 1          5          10          15
205 <210> SEQ ID NO: 5
206 <211> LENGTH: 15
207 <212> TYPE: PRT
208 <213> ORGANISM: Homo sapiens
210 <400> SEQUENCE: 5
212 Ala Tyr Val Leu Leu Ser Glu Lys Lys Ile Ser Ser Ile Gln Ser
213 1          5          10          15
216 <210> SEQ ID NO: 6
217 <211> LENGTH: 15
218 <212> TYPE: PRT
219 <213> ORGANISM: Mycobacterium
221 <400> SEQUENCE: 6
223 Glu Ala Val Leu Glu Asp Pro Tyr Ile Leu Leu Val Ser Ser Lys
224 1          5          10          15
227 <210> SEQ ID NO: 7
228 <211> LENGTH: 15
229 <212> TYPE: PRT
230 <213> ORGANISM: Homo sapiens
232 <400> SEQUENCE: 7
234 Lys Cys Glu Phe Gln Asp Ala Tyr Val Leu Leu Ser Glu Lys Lys
235 1          5          10          15
238 <210> SEQ ID NO: 8
239 <211> LENGTH: 15
240 <212> TYPE: PRT
241 <213> ORGANISM: Mycobacterium
243 <400> SEQUENCE: 8
245 Ile Ala Gly Leu Phe Leu Thr Thr Glu Ala Val Val Ala Asp Lys
246 1          5          10          15
249 <210> SEQ ID NO: 9
250 <211> LENGTH: 15
251 <212> TYPE: PRT
252 <213> ORGANISM: Homo sapiens

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 260 <210> SEQ ID NO: 10
 261 <211> LENGTH: 15
 262 <212> TYPE: PRT
 263 <213> ORGANISM: Artificial sequence
 265 <220> FEATURE:
 266 <223> OTHER INFORMATION: dnaJp1 peptide
 268 <400> SEQUENCE: 10
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 271 1 5 10 15
 274 <210> SEQ ID NO: 11
 275 <211> LENGTH: 15
 276 <212> TYPE: PRT
 277 <213> ORGANISM: Artificial sequence
 279 <220> FEATURE:
 280 <223> OTHER INFORMATION: Irrelevant dnaJpV peptide
 282 <400> SEQUENCE: 11
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 285 1 5 10 15
 288 <210> SEQ ID NO: 12
 289 <211> LENGTH: 11
 290 <212> TYPE: PRT
 291 <213> ORGANISM: Artificial sequence
 293 <220> FEATURE:
 294 <223> OTHER INFORMATION: pan-DR binder peptide
 296 <220> FEATURE:
 297 <221> NAME/KEY: MISC_FEATURE
 298 <222> LOCATION: (2)..(2)
 299 <223> OTHER INFORMATION: Xaa is any amino acid
 302 <400> SEQUENCE: 12
W--> 304 Lys Xaa Val Ala Ala Trp Thr Leu Lys Ala Ala
 305 1 5 10
 308 <210> SEQ ID NO: 13
 309 <211> LENGTH: 573
 310 <212> TYPE: PRT
 311 <213> ORGANISM: Homo sapiens
 313 <400> SEQUENCE: 13
 315 Met Leu Arg Leu Pro Thr Val Phe Arg Gln Met Arg Pro Val Ser Arg
 316 1 5 10 15
 319 Val Leu Ala Pro His Leu Thr Arg Ala Tyr Ala Lys Asp Val Lys Phe
 320 20 25 30
 323 Gly Ala Asp Ala Arg Ala Leu Met Leu Gln Gly Val Asp Leu Leu Ala
 324 35 40 45
 327 Asp Ala Val Ala Val Thr Met Glu Pro Lys Gly Arg Thr Val Ile Ile
 328 50 55 60
 331 Glu Gln Ser Trp Gly Ser Pro Asn Val Thr Lys Asp Gly Val Thr Val
 332 65 70 75 80

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335 Ala Lys Ser Ile Asp Leu Lys Asp Lys Tyr Lys Asn Ile Gly Ala Lys
336                85                90                95
339 Leu Val Gln Asp Val Ala Asn Asn Thr Asn Glu Glu Ser Gly Asp Gly
340                100                105                110
343 Thr Thr Thr Ala Thr Val Leu Ala Gly Ser Ile Ala Lys Glu Gly Phe
344                115                120                125
347 Gln Lys Ile Ser Lys Gly Ala Asn Pro Val Glu Ile Arg Arg Gly Val
348                130                135                140
351 Met Leu Ala Val Asp Ala Val Ile Ala Glu Leu Lys Lys Gln Ser Lys
352 145                150                155                160
355 Pro Val Thr Thr Pro Glu Glu Ile Ala Gln Val Ala Met Ile Ser Ala
356                165                170                175
359 Asn Gly Asp Lys Glu Ile Gly Asn Ile Ile Ser Asp Ala Met Lys Lys
360                180                185                190
363 Val Gly Arg Lys Gly Val Ile Thr Val Lys Asp Gly Lys Thr Leu Asn
364                195                200                205
367 Asp Glu Leu Glu Ile Ile Glu Gly Met Lys Phe Asp Arg Gly Tyr Ile
368                210                215                220
371 Ser Pro Tyr Phe Ile Asn Thr Ser Lys Gly Gln Lys Cys Glu Phe Gln
372 225                230                235                240
375 Asp Ala Tyr Val Leu Leu Ser Glu Lys Lys Ile Ser Ser Val Gln Ser
376                245                250                255
379 Ile Val Pro Ala Leu Glu Ile Ala Asn Ala His His Lys Pro Leu Val
380                260                265                270
383 Ile Ile Ala Glu Asp Val Asp Gly Glu Ala Leu Ser Thr Leu Ile Leu
384                275                280                285
387 Asn Arg Leu Lys Val Gly Leu Gln Val Val Ala Val Lys Ala Pro Gly
388                290                295                300
391 Phe Gly Asp Asn Arg Lys Asn Gln Leu Lys Asp Met Ala Ile Ala Thr
392 305                310                315                320
395 Gly Gly Ala Val Phe Gly Glu Glu Gly Leu Thr Leu Asn Leu Glu Asp
396                325                330                335
399 Val Gln Pro His Asp Leu Gly Lys Val Gly Glu Val Ile Val Thr Lys
400                340                345                350
403 Asp Asp Ala Met Leu Leu Lys Gly Lys Gly Asp Lys Ala Gln Leu Glu
404                355                360                365
407 Lys Arg Ile Gln Glu Ile Ile Gly Gln Leu Asp Val Thr Thr Ser Glu
408                370                375                380
411 Tyr Glu Lys Glu Lys Leu Asn Glu Trp Leu Ala Lys Leu Ser Asp Gly
412 385                390                395                400
415 Val Val Val Leu Lys Phe Gly Gly Thr Ser Asp Val Glu Val Asn Glu
416                405                410                415
419 Lys Lys Asp Arg Val Thr Asp Ala Leu Asn Ala Thr Arg Ala Ala Val
420                420                425                430
423 Glu Gly Gly Ile Val Leu Gly Gly Gly Phe Ala Leu Leu Arg Cys Ile
424                435                440                445
427 Pro Ala Leu Asp Ser Leu Thr Pro Ala Asn Glu Asp Gln Lys Ile Gly
428                450                455                460
431 Met Glu Ile Val Lys Arg Thr Leu Lys Ile Pro Ala Met Thr Thr Ala

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/18/2003
PATENT APPLICATION: US/09/828,574A TIME: 11:45:19

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:12; Xaa Pos. 2